



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

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SUMMARY OF THE PHYSICAL/CHEMICAL PROPERTIES (PR Notice 98-1)

1. PRODUCT NAME: Oxalic acid dihydrate		2. Reg. No. 91266-1
3. COMPANY NAME: USDA ARS, Bee Research Laboratory, 10300 Baltimore Ave, Belts, MD 20745		4. SUBMISSION DATE:
5. FIRST SUBMISSION <input type="checkbox"/>	7. PESTICIDE TYPE: biochemical	10. REGISTRATION <input type="checkbox"/>
6. RESUBMISSION <input checked="" type="checkbox"/>		
8. FORMULATED MANUFACTURING-USE PRODUCT <input type="checkbox"/> or 9. END-USE PRODUCT <input checked="" type="checkbox"/>		11. REREGISTRATION <input type="checkbox"/>
13. PRODUCT MANAGER OR CHEMICAL REVIEW MANAGER #/NAME (IF KNOWN):		12. REREG CASE #
14. GUIDELINE REFERENCE NO.(GRN)/TITLE	15. VALUE or QUALITATIVE DESCRIPTION/METHOD(s) USED WHERE APPLICABLE AND REFERENCES	16. MRID or REPORT NO.

Group B, Series 830-Physical and Chemical Properties (40 CFR 158.190)

-6302	Color	colorless solid	
-6303	Physical State	solid	
-6304	Odor	odorless	
-6314	Oxidation/Reduction: Chemical Incompatibility	medium strong acid which reacts vigorously with strong bases.	
-6315	Flammability/Flame Extension	reacts violently with oxidants causing fire and explosion hazard	
-6316	Explosibility	if reacted with silver may form explosive silver oxalate	
-6317	Storage Stability	stable when stored in cool, dry, well-ventilated area away from incompatible substances	
-6319	Miscibility	N/A	
-6320	Corrosion Characteristics	Not expected to be corrosive to packaging material	
-6321	Dielectric Breakdown Voltage	N/A	
-7000	pH	1.3	
-7100	Viscosity	N/A	
-7300	Density/Relative Density/ Bulk Density	0.977 g/cm3	

INSTRUCTIONS ON HOW TO COMPLETE THE SUMMARY FORM (PR NOTICE 98-1)

1, 3 to 6 & 8 to 13: Self-explanatory.

2: Cite Registration Number or File Symbol Number. Leave blank if unknown or cite company number followed by a hyphen and XXX.

7: State whether your product is an insecticide, herbicide, fungicide, rodenticide, plant growth regulator, etc.

14: OPPTS Test Guidelines, Series 830, Product Properties (EPA publication 712-C-96-310,8/96) supersedes the Pesticide Assessment Guidelines, Subdivision-D, Product Chemistry, Series 60 to 64, and serves as one guideline for national and international product chemistry data requirements for chemical pesticides. Consistent with the certification statement, applicants must conduct the studies in substantial conformity with the detailed procedures described in OPPTS Test Guidelines. Published procedures or modifications may be used but must be referenced. If the applicant/registrant is fulfilling product chemistry requirements for a biochemical or microbial pesticides, cite the requirements opposite the corresponding GRNs listed on the form for chemical pesticides.

15: Indicate the experimental value, its average deviation and, where applicable, the method used, e.g., GC, HPLC, DTA/DSC (differential thermal analysis/scanning calorimetry). Provide qualitative descriptions, where applicable, and references such as ASTM, CIPAC, OECD, Federal Register, CFR, CRC Publication, Official Journal of the European Communities, EPA's Guidelines, etc. Examples on how to report some of these properties are shown on Attachment 3. Non-applicable studies can be indicated by using the term "N/A or Not-Applicable" then citing a regulatory and/or scientific reason as per the footnotes to the Table in 40 CFR 158.190. Studies in progress can be indicated as such "I/P or In Progress." Values or qualitative description of referenced or shared studies should also be indicated on the Form. All boxes in the form must be completed with data summaries and appropriate terms if not applicable or in progress. Resubmissions can be completed using a new form citing the applicants's response to the specific data gap or deficiencies and filling the remaining boxes with "N/A or Not-Applicable" if previously submitted and found adequate or "Upgraded" if a submitted study was rejected and needed upgrading, then cite the date of preceding data submissions followed by a summary of the upgraded information. The Form is expandable to allow reporting the requirements for registration/reregistration on separate sheets identified by product's name and Reg. No./File Symbol or Company No. Please note that abbreviations may be used if explained by identifying the corresponding full terms as footnotes to the Form.

16: Indicate company Report number if the study was generated and retained by the applicant or MRID number (Master Record Identification Number) if the study was previously submitted and assigned a number by the EPA. Company report number should not exceed eighteen (18) characters. It will be used by the Agency to recall certain studies if needed. When received by the Agency, properly formatted data will be assigned MRID number(s).

Specific Instructions by Guideline Reference Number (GRN)

GRNs 830-6319, -6321, -7000, -7100 & -7300 should be conducted in compliance with OPPTS Test Guidelines Series 830 Product Properties, or reported at 25°C unless otherwise noted.

GRN 830-6302, -6303 & -6317: Report qualitative description where applicable as per PR Notice 92-5.

GRN's 830-6315, -7000 & -7300: Reported values on the form should be consistent with those given on the Confidential Statement of Formula (CSF).

GRN 830-6303: Provide a brief description, e.g., solid, granular, liquid, powder, aqueous solution, emulsion, volatile liquid, gas, etc.

GRN 830-6314: Not applicable if the product does not contain an oxidizing or reducing agent or functional group of significant reactivity. This requirement includes those substances which the product is likely to contact including the storage container and dispensers during handling and use, e.g., iron, aluminum.

GRN 830-6315: For organic liquids, provide flash point in degrees Celsius (with Fahrenheit in parentheses). For aerosols provide flame extension and/or flash back if applicable to the nearest centimeters (with inches in parentheses). For non-combustible liquids and solids state "Non-Applicable."

GRN 830-6316: Indicate method of determination and cite references, e.g., differential thermal analysis/scanning calorimetry (DTA/DSC), (sharp exotherm at 60 degrees Celsius), by shock or impact explosability, hammer test or by structural analog, contains several nitro groups as in picric acid.

GRN 830-6317: Should be conducted for a minimum of one year under ambient warehouse conditions using commercial containers. Report the type of containers used and any changes in product composition at intervals of three months to the end of the test period relative to that at the beginning of testing. Any physical changes at the end of the test period must also be reported. Data on the stability study for technical grade of active ingredients (GRN 830-6313) will not satisfy the requirements for the storage stability (GRN 830-6317) for qualifying products. An interim 30 days storage stability study can be included with the first submission requesting a conditional registration pending compliance with all the requirements.

GRN 830-6320: May be conducted simultaneously with GRN 830-6317. Indicate changes in the commercial packaging containers (fluorinated high density polyethylene, plastic film, polyethylene liners, steel, tin, or paper) over a minimum of one year in storage under warehouse conditions.

GRN 830-7100: Flow curves for non-Newtonian fluids on viscosity can be appended to the form.

GRN 830-7300: For solids or powders, provide the bulk density in units, e.g., g/cc or lb/ft³ whichever is preferred. For liquids, provide the density in grams/ml or lbs/gal.

Attach-1